

No.

8300125



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pure-Seed Testing, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX- OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

INTERMEDIATE RYEGRASS

'Agree'

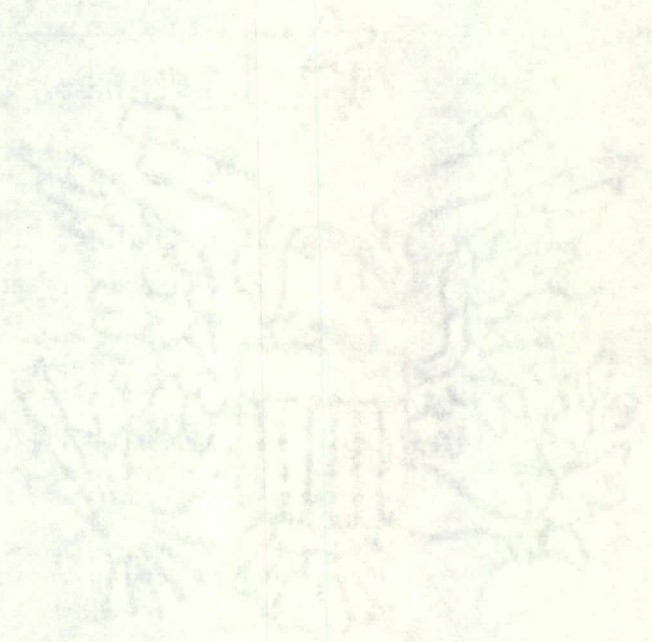


Attest:

Kenneth H. ...
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 28th day of September in the year of our Lord one thousand nine hundred and eighty-four.

John R. Block
Secretary of Agriculture



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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY 3CMR		1b. VARIETY NAME Agree		FOR OFFICIAL USE ONLY PV NUMBER 8300125	
2. KIND NAME Intermediate ryegrass		3. GENUS AND SPECIES NAME Lolium X hybridum		FILING DATE 5/2/83	TIME 8:00 A.M.
4. FAMILY NAME (BOTANICAL) Gramineae		5. DATE OF DETERMINATION August, 1982		FEE RECEIVED \$ 1,000 \$ 500.00	DATE 5/2/83 7/25/84
6. NAME OF APPLICANT(S) Pure-Seed Testing, Inc.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 449 73 West G Street Hubbard, OR 97032		8. TELEPHONE AREA CODE AND NUMBER (503) 981-7333	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Oregon		11. DATE OF INCORPORATION 6/3/74
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Dr. William A. Meyer, Pure-Seed Testing, Inc. P. O. Box 449 Hubbard, OR 97032					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☒ YES ☐ NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? ☒ FOUNDATION ☐ REGISTERED ☒ CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

4/12/83
(DATE)

William A. Meyer
(SIGNATURE OF APPLICANT)

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INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

EXHIBIT A.

ORIGIN AND BREEDING HISTORY
OF AGREE INTERMEDIATE RYEGRASS

Agree (Expt. No. 3CMR) is an advanced generation synthetic variety. Selected plants out of Oregreen intermediate ryegrass were crossed in the greenhouse with dark blue-green stem rust susceptible turf-type perennial ryegrasses selected from old turf areas. A large space planting was made from these crosses and 58 dark blue-green colored, leafy, low-growing, stem rust resistant clones were then selected and moved to an isolation area prior to anthesis. The seed from these 58 isolated clones was then used to seed turf plots in Adelphia, New Jersey. After these plots were maintained at close mowing and moderate fertility for two years, individual plants were removed for the establishment of a space planted nursery. Thirty-nine individual attractive, stem rust resistant clones were selected from this nursery and moved to an isolation nursery prior to anthesis. The seed produced from these 39 clones was the first breeder seed of Agree intermediate ryegrass.

Breeder seed of Agree is being kept in storage for additional breeder seed production. Seed propagation is limited to two generations of increase from breeder seed -- one each of foundation and certified.

Agree is a stable and uniform variety. No off-type plants or variants have been observed in the reproduction or multiplication of Agree intermediate ryegrass. Seed of the different generations of Agree have produced turf of comparable quality and acceptable uniformity.

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EXHIBIT B,

NOVELTY STATEMENT ON
AGREE INTERMEDIATE RYEGRASS

Agree intermediate ryegrass most closely resembles 3CN intermediate ryegrass. However, close comparisons have shown that the two cultivars differ in a number of characteristics, as follows:

- 1.) Agree is 5 days later maturing than 3CN.
(Tables 2 & 7)
- 2.) Agree is ⁹8 cm. shorter at maturity than 3CN
(Tables 1 & 7)

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TABLE 1.

MORPHOLOGICAL MEASUREMENTS JULY, 1982
ON RYEGRASS SEED YIELD TRIALS
SEEDED FALL, 1981 NEAR HUBBARD, OR

ENTRY	PLANT HEIGHT CM	STAND. ERROR OF MEAN	SPIKE LENGTH CM	STAND. ERROR OF MEAN	FLAG LEAF LENGTH CM	STAND. ERROR OF MEAN	FLAG LEAF WIDTH MM	STAND. ERROR OF MEAN	TILLERS/ 3½" ROW	STAND. ERROR OF MEAN	GLUME LENGTH MM	STAND. ERROR OF MEAN
Agree	98.4	0.86	25.2	0.44	17.1	0.56	4.2	0.26	94	2.3	1.9	0.33
3CN	107.2	0.75	26.1	0.47	14.5	0.52	4.5	0.21	97	3.1	3.8	0.37
Oregreen	115.3	0.87	27.3	0.39	19.5	0.49	4.5	0.18	79	3.8	2.9	0.24
Manhattan	70.9	0.49	24.5	0.49	12.4	0.29	4.4	0.17				

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FORM GR-470-36
(9-76)U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF CULTIVARS
RYEGRASS
(*Lolium spp.*)

NAME OF APPLICANT(S) Pure-Seed Testing, Inc.	VARIETY NAME OR TEMPORARY DESIGNATION Agree intermediate ryegrass
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) P. O. Box 449, 73 West G Street Hubbard, OR 97032	FOR OFFICIAL USE ONLY PVPO NUMBER 8300125

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in first box (e.g. 089 or 09) when number is either 99 or less or 9 or less. Descriptions of characters should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Give additional description for all characteristics that cannot be adequately described in the form below. Append all pertinent comparative trial and evaluation data.

1. SPECIES:

4 1 = L. MULTIFLORUM (annual or Italian; includes Westerwoldicum) 2 = L. PERENNE (perennial) 3 = L. RIGIDUM (includes Wimmera)
4 = HYBRID (of species) Lolium X hybridum 5 = OTHER (Specify) _____

2. PLOIDY:

1 1 = DIPLOID 2 = TETRAPLOID 3 = OTHER (Specify) _____

3. DURATION:

2 1 = ANNUAL OR BIENNIAL 2 = SHORT LIVED PERENNIAL (3-4 years) 3 = PERENNIAL (more than 4 years)

STANDARD CULTIVARS

1 = GULF 2 = WIMMERA 62 3 = LINN 4 = PELO
5 = NORLEA 6 = ABERYSTWYTH S-23 7 = MANHATTAN 8 = PENNFINE

4. MATURITY (50% HEADED) Use standards from above for comparison: Table 2.

5 1 = VERY EARLY 3 = EARLY DAYS EARLIER THAN STANDARD CULTIVAR
5 = MEDIUM 7 = LATE DAYS LATER THAN STANDARD CULTIVAR
9 = VERY LATE 1 0

5. MATURE PLANT HEIGHT (Use standard cultivars from above): Table 1.

9 8 .4 CM. HIGH CM. SHORTER THAN STANDARD CULTIVAR
2 7 .5 CM. TALLER THAN 7 STANDARD CULTIVAR

6. PERCENT WINTER DAMAGE (estimated as percent of the area appearing dead). Use standard cultivars from above for comparison:

PERCENT DAMAGE OF APPLICATION CULTIVAR
 PERCENT DAMAGE OF STANDARD CULTIVAR

7. TURF DENSITY Use standard cultivars from above: Table 3.

2 4 1 TILLERS PER 100 SQ. CM.
0 7 6 LESS TILLERS PER 100 SQ. CM. THAN 7 STANDARD CULTIVAR
 MORE TILLERS PER 100 SQ. CM. THAN STANDARD CULTIVAR

8. FLAG LEAF (at full growth) Use standard cultivars from above: Table 1.

1 7 .1 CM. LENGTH (from ligule to tip) 4 .2 MM. WIDTH (at widest point)
 CM. SHORTER THAN STANDARD CULTIVAR FLAG LEAF AT BOOT STAGE: 1 = DEFLEXED
3 = RECURVED
5 = HORIZONTAL
7 = SEMI-ERECT
9 = ERECT
0 4 .7 CM. LONGER THAN 7 STANDARD CULTIVAR
0 0 .2 MM. NARROWER THAN 7 STANDARD CULTIVAR
 MM. WIDER THAN STANDARD CULTIVAR

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EXHIBIT D.

ADDITIONAL DESCRIPTION OF
AGREE INTERMEDIATE RYEGRASS

Agree intermediate ryegrass is an improved ryegrass for overseeding dormant bermudagrass in the southern United States. The increased tillering ability, more dwarf growth habit and darker color (137B in Royal Horticulture Society Charts) make it a more desirable overseeding grass requiring reduced mowing when compared to annual ryegrass (Table 6). Agree has had moderately good resistance to leaf spot and persistence under northern turf conditions (Table 4 & 5). Agree has shown very good resistance to stem rust in seed production (Table ~~5~~).

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TABLE 2.

OBSERVATIONS IN 1982 ON
RYEGRASS SEED YIELD TRIALS
SEEDED NEAR HUBBARD, OR FALL, 1981.

ENTRY	50 PERCENT HEADING DATE	JULY, 1982 STEM RUST RATING
Gulf	5/20	9
Oregreen	5/27	9
3CN	5/25	9
Agree	5/30	9
Manhattan	6/9	4

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OFFICE OF THE
DIRECTOR
OF THE
BUREAU OF
LAND MANAGEMENT
WASHINGTON, D.C.

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TABLE 3.

TILLER COUNTS IN TURF TRIALS
SEEDED NEAR HUBBARD, OR IN FALL, 1981
AND MAINTAINED AT MODERATE FERTILITY

ENTRY	TILLERS/ 100 SQ. CM.
Oregreen	166
3CN	225
Agree	241
Manhattan	317
LSD @ 0.05	22

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TABLE 4.

PERFORMANCE OF RYEGRASSES IN TURF TRIALS
 NEAR HUBBARD, OR SEEDED IN SEPT. OF 1982
 AND MAINTAINED AT MODERATE FERTILITY AND 1¼" CUTTING HEIGHT

ENTRY	TURF QUALITY 9-1 (9=best)				LEAF SPOT
	11/3/82	1/31/83	2/28/83	AVE.	1-9 (9=best) 11/3/82
Agree	5.7	4.7	5.0	5.1	6.7
3CN	5.0	5.0	4.7	4.9	5.3
Oregreen	4.7	4.0	4.0	4.2	5.0
Manhattan	4.7	4.3	6.0	5.3	5.0
LSD @ 0.05	0.67	1.15	0.82		0.47

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TABLE 5.

PERFORMANCE OF RYEGRASSES IN TURF TRIALS
 NEAR HUBBARD, OR SEEDED IN SEPT. OF 1981
 AND MAINTAINED AT MODERATE FERTILITY AND 1½" CUTTING HEIGHT

ENTRY	TURF QUALITY 9-1 (9=best)					AVE.	LEAF SPOT
	3/27/82	4/28/82	5/26/82	6/30/82	9/28/82		9-1 (9=best) 6/1/82
Agree	5.0	5.7	4.7	4.0	5.3	4.94	5.5
3CN	4.3	4.7	5.0	4.3	4.3	4.52	4.7
Oregreen	3.7	4.0	3.7	4.0	3.3	3.74	4.7
Manhattan	6.0	6.0	6.3	6.0	5.3	5.86	6.3
LSD @ 0.05	0.74	0.83	0.87	1.09	1.19		0.78

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TABLE 7.

OBSERVATIONS IN 1983 ON
RYEGRASS SEED YIELD TRIALS
SEEDED FALL 1982 NEAR HUBBARD, OREGON

ENTRY	50 PERCENT HEADING DATE	PLANT HEIGHT CM	STAN. ERROR OF MEAN
3CN	5/25	93	0.96
Agree	6/1	84	0.86

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